Agenda

• Welcome and Introductions

• Business Meeting
  – Election of Directors and Officers
  – Treasurer’s Report

• Monitoring the Spring Herring Run

• Project Planning Update

• “A Brief History of the Herring River Estuary” - Bill Burke, CCNS

• Refreshments
Friends of Herring River
Board of Directors

• Barbara Brennessel
• Lisbeth Wiley Chapman
• Debby Freeman
• Joel Fox
• Barbara E. Gray
• Jeff Hughes
• Gary Joseph
• Don Palladino
• John Portnoy
• Robert Prescott
• John Riehl

Lynn Southey, Wellfleet Open Space Committee Liaison
Candidates for election to a second three-year term

- Barbara Brennessel
- Bob Prescott
- John Riehl

Candidates for election for a three-year term

- Alan Platt
- Alice Iacuesssa
- Lynn Southevan
Business Meeting
Election of Board Officers

• President – Don Palladino
• Vice President – Barbara E. Gray
• Treasurer – John Riehl
• Clerk – Deborah Freeman
## Business Meeting
### Treasurer’s Report

### Operating Account

<table>
<thead>
<tr>
<th></th>
<th>August 2012</th>
<th>August 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yearly revenue</td>
<td>$4,734</td>
<td>$7,970</td>
</tr>
<tr>
<td>Yearly expense</td>
<td>$5,810</td>
<td>$6,755</td>
</tr>
<tr>
<td>Balance</td>
<td>$7,889</td>
<td>$9,104</td>
</tr>
</tbody>
</table>

Note: Operating account revenue reflects income from donors only and does not include grant receipts and disbursements.
Herring Count Overview

Monitoring Spring Herring Run

Friends of Herring River
What are we counting?

Alewife

Blueback Herring
Why Count River Herring?

- Pre-restoration monitoring
- Project Support
- Herring are an additional reason to restore
- Data support global effort to track herring populations
- Part of a statewide effort
- Key forage fish
What are the results for the Herring River?

<table>
<thead>
<tr>
<th>YEAR</th>
<th>COUNT BLOCKS</th>
<th>FISH SEEN</th>
<th>POP. ESTIMATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>209</td>
<td>1664</td>
<td>17,000</td>
</tr>
<tr>
<td>2010</td>
<td>260</td>
<td>744</td>
<td>12,500</td>
</tr>
<tr>
<td>2011</td>
<td>319</td>
<td>564</td>
<td>7,700</td>
</tr>
<tr>
<td>2012</td>
<td>466</td>
<td>1192</td>
<td>12,000</td>
</tr>
<tr>
<td>2013</td>
<td>383</td>
<td>2035</td>
<td>25,000</td>
</tr>
</tbody>
</table>
Who did the work?
Jeff Hughes – Town Herring Warden
Jo Ann Muramoto – APCC Technical Support
John Riehl, John Duane – Natural Resource Advisory Board

Volunteers

Peg Andre          Barbara Brennessel
Beth Chapman       Dick Guernsey
Ginnie Page        John Portnoy
Ned Hitchcock      Nick Picariello
Lynn Southey       Susan Brice
Harry Peabody      Peter & Gail Stewart
Richard Bailey     Janet Drohan
Rachael Brown      Doug Franklin
Randy Bartlett     Don Palladino
Jane & Larry Franke Dave Koonce
For More Information:

http://www.friendsofherringriver.org/

http://www.riverherringnetwork.com/
Project Planning
Original vs. current opening (since 1909)
Cape Cod Bay

Invasive Phragmites

Native salt marsh

Dike
Tidal restoration for Herring River =

*The controlled removal of restrictions to allow incremental restoration of tidal flow to and from the estuary.*
Why are we doing this project?

- To achieve the benefits of a healthy and productive tidal marsh
- With restricted tidal flow, the marsh will continue to degrade over time – it will not stay the same
- The CNR dike needs repair
- Properties need flood protection
- Quantifiable ecological and social benefits
Project Ecological Benefits

Reconnection with the marine environment leads to:

- Improved tidal flushing and water quality
- Restored finfish and shellfish habitat
- Restored eel and herring runs
- Restored input of sediment to counter flooding by sea-level rise
- Removal of invasive plants
- Re-establishment of salt-marsh plants
- Restored export to sustain the productivity of coastal waters
Project Social Benefits

- Restored harvestable finfish & shellfish
- Improved water quality
- Restored pollution control (of nitrogen, coliform bacteria)
- Restored public access, recreation & education
  - Boating, birding, fin and shellfishing
- Reduced mosquitoes
Herring River Restoration Committee

- Gary Joseph (Town of Wellfleet and Committee Chair)
- Hillary Greenberg (Town of Wellfleet)
- Charlene Greenhalgh (Town of Truro)
- Steve Block (National Oceanic and Atmospheric Administration)
- Eric Derleth (US Fish and Wildlife Service)
- Tim Smith (Cape Cod National Seashore)
- Stephen Spear (Natural Resource Conservation Service)
- Hunt Durey (MA Division of Ecological Restoration)
- Margo Fenn – Project Coordinator
Major Activities

HRRC

• Preparation of the final EIS/EIR
• Consultation with State agencies
• Cultural resources studies
• Discussions with property owners
• Hydrodynamic Modeling—CNR Dike
• Mill Creek Dike and Tidal Gate Design
• Preparation of Adaptive Management Plan
• Participation in MOU III Working Group
MOU III Working Group

2005 - MOU I  Determine project feasibility
2007 - MOU II  Develop restoration plan
2014 - MOU III

• Ratify the restoration plan
• Enable additional planning
• Set forth the structure and responsibilities to implement the project
Friends of Herring River
Mission

Promote the restoration and ongoing environmental vitality of the Herring River Estuary

- Conduct education, research and public awareness activities
- Coordinate public outreach
- Raise funds
Public Outreach

- Board Contacts
- Herring Count
- 4th of July Parade
- Art/Photo Exhibit
- Harbor Fest
- Oyster Fest
- State of the Wellfleet Harbor Conference
- Bound Brook Island Walks
- News articles and press releases
4th of July
Education and Information

- Special events and public outreach activities
- Electronic Newsletters
- Summer display in the Wellfleet Beach Sticker Office at the pier
- Video: “Return of the Tide”
- Website
  
  www.friendsofherringriver.org
Grants to Friends of Herring River support the Herring River Restoration Committee

- $25,000 - NOAA/Conservation Law Foundation
- $25,000 – Massachusetts Division of Ecological Restoration
- Additional grant applications in process

Average 1500 volunteer hours per year used to provide in-kind match for project grants
Additional Grant Activity

- $10,000 MA Division of Ecological Restoration - support MOU III task group
- $20,000 MA Bays Program – CNR dike hydrodynamic modeling
- $50,000 Massachusetts Environmental Trust – CNR dike engineering and design
- $300,000 NOAA – project engineering, design and permitting (year one of a three year grant)
What’s Next?

• Winter 2013/ 2014 – Complete final EIS/EIR

• Spring 2014 – Record of Decision

• 2013 / 2014 – Continue engineering and preliminary design activities
What’s Next?

- 2013 / 2014 – Develop MOU III
- 2013 / 2014 – Prepare Adaptive Management Plan
- 2013 / 2015 – Resolve low-lying property issues
- 2014 / 2015 – Obtain local, state and federal permits
- 2014 / 2016 – Secure project funding
- 2014 / 2016 – Final design
Guest Speaker

“A Brief History of the Herring River Estuary”

Bill Burke
Cultural Resources Program Manager
Cape Cod National Seashore